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DATE OF ISSUE  
10/02/2003SUPERSEDES  
9/06/2000

## SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms  
ATrade Name & Synonyms  
ALL-BRIGHTChemical Family:  
AQUEOUS ALKALINE SOLUTION

Formula Mixture --&gt; X

Manufacturer's Name:  
CERTIFIED LABS, DIV. OF NCH CORP.Address:  
BOX 152170  
IRVING, TEXAS 75015Prepared By:  
L Boynton/ChemistProduct Code Number  
0505Emergency Phone Number  
800-424-9300

## SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
SODIUM HYDROXIDE	CORROSIVE	N/E 1.	2 MG/M3 2	2 MG/M3\$ 1	1310-73-2
TETRASODIUM ETHYLENE DIAMINE TETRAACETATE	IRRITANT	N/E 1.	N/E 2.	N/E	640-02-8
\$ AS CEILING LIMIT					

## SECTION IIa - NON-HAZARDOUS INGREDIENTS

(NON-HAZARDOUS INGREDIENT NAMES AND CAS NUMBERS ARE PROTECTED UNDER NJ TRADE)

Secret Registry #: 409363-5067P

## SECTION III - PHYSICAL DATA

Boiling Point (F):	212°	Specific Gravity (H2O=1):	1.175
Vapor Pressure (MM HG):	13.91	Color:	RED
Vapor Density (Air=1):	0.5	Odor:	ODORLESS
PH @ 100% :	13.3	Clarity:	TRANSPARENT
% Volatile by Volume:	87	Evaporation Rate (BU A/C=1):	0.51
H2O Solubility:	COMPLETE	Viscosity:	NON-VISCOUS

## SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point >200°F / SETAFLASH	Flammable Limits HYDROGEN GAS	LEL 4%	UEL 75%
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Extinguishing Media  
X <--Foam X <--Alcohol Foam X <--CO2 X <--Dry Chemical X <--Water Spray <--OtherSpecial Fire Fighting Procedures:  
FIREFIGHTERS SHOULD WEAR A SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. EXTINGUISHING MEDIA SHOULD BE CHOSEN BASED ON THE NATURE OF THE SURROUNDING FIRE. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.Unusual Fire and Explosion Hazards:  
PROLONGED CONTACT WITH REACTIVE METALS, SUCH AS ALUMINUM, BRASS, BRONZE, CHROMIUM, MAGNESIUM, TIN, ZINC, AND ALLOYS, CAN CAUSE THE FORMATION OF FLAMMABLE HYDROGEN GAS WHICH CAN FORM AN EXPLOSIVE MIXTURE WITH AIR.

Aerosol Level (NFPA 30B): N/A

NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)  
3 <--Health 0 <--Flammability 1 <--Instability <--Special

## SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:  
ESTABLISHED.

Effects of Overexposure:

-Acute (Short Term Exposure)

CONTACT: CORROSIVE. CAUSES BURNS, CORNEAL DAMAGE, AND POSSIBLE BLINDNESS.

CONTACT: CORROSIVE. CAUSES BURNS AND POSSIBLE DEEP ULCERATIONS OR SCARRING THAT ARE NOT IMMEDIATELY NOTICED OR PAINFUL. TEMPORARY HAIR LOSS MAY OCCUR AT BURN SITE. THE SEVERITY OF THESE EFFECTS DEPEND ON CONCENTRATION AND HOW SOON AFTER EXPOSURE THE AREA IS WASHED.

INHALATION: CAUSES BURNS TO THE RESPIRATORY TRACT, NOSE, MOUTH, AND THROAT WITH DISCOMFORT, NASAL DISCHARGE, SNEEZING, COUGHING, RAPID HEARTBEAT, AND CHEST PAIN. INHALATION OF MIST OR VAPORS MAY CAUSE CHEMICAL PNEUMONITIS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

INGESTION: CORROSIVE. CAUSES BURNS TO THE MOUTH, THROAT, ESOPHAGUS, AND STOMACH WITH NAUSEA AND PAIN. SYMPTOMS MAY INCLUDE VOMITING OF BLOOD. BLOOD LOSS THROUGH DAMAGED TISSUE CAN LEAD TO LOW BLOOD PRESSURE, SHOCK, AND MAY BE FATAL.

-Chronic (Long Term Exposure)

CHRONIC SKIN CONTACT MAY PROMOTE DERMATITIS. CHRONIC INHALATION MAY CAUSE ULCERATION OF THE NASAL PASSAGES.

## SECTION V - HEALTH HAZARD DATA (Continued)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS. TARGET ORGANS: NONE KNOWN. THERE IS NO PRIMARY ROUTE OF ENTRY INTO THE BODY. THE PRIMARY ROUTES OF EXPOSURE ARE SKIN AND EYE CONTACT.

Primary Routes of Entry: <--Inhalation <--Ingestion <--Absorption

## Emergency and First Aid Procedures:

-Inhalation:  
REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

-Eye Contact:  
IMMEDIATELY RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES. HOLD THE EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYES AND LIDS WITH WATER. CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

-Skin Contact:  
WASH AFFECTED AREAS WITH LARGE AMOUNTS OF SOAP AND WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. GET IMMEDIATE MEDICAL ATTENTION. WASH CLOTHING AND CLEAN SHOES BEFORE REUSE.

-Ingestion:  
GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:  
PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.

## SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:  
IARC--> No NTP--> No OSHA--> No ACGIH--> No OTHER--> No

VOC CONTENT: 0% BY WEIGHT; 0% BY VOLUME; 0 G/L

SODIUM HYDROXIDE  
ORL-MSE LD50: 40 MG/KG 3.  
ORL-RBT LDLo: 500 MG/KG 3.  
SKN-RBT TCLo: 25 PPH 3.  
SKN-RBT SDT: 500 MG/24H SEVERE 3.  
EYE-RBT SDT: 1 MG/24H SEVERE 3.

TETRASODIUM ETHYLENE DIAMINE TETRAACETATE  
NO TOXICITY DATA AVAILABLE

## SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable  
Conditions to Avoid:  
NONE KNOWN.

Incompatibility (Materials to Avoid):  
ACETALDEHYDE, ACIDS, ACROLEIN, CHLORINATED OR FLUORINATED HYDROCARBONS, CHLORINE TRIFLUORIDE, HYDROQUINONE, LEATHER, MALEIC ANHYDRIDE, ORGANIC HALOGEN OR NITRO COMPOUNDS, PHOSPHOROUS PENTOXIDE, TETRAHYDROFURAN, WATER, AND WOOL. PROLONGED CONTACT WITH REACTIVE METALS, SUCH AS ALUMINUM, BRASS, BRONZE, CHROMIUM, MAGNESIUM, TIN, ZINC, AND ALLOYS, CAN CAUSE THE FORMATION OF FLAMMABLE HYDROGEN GAS WHICH CAN FORM AN EXPLOSIVE MIXTURE WITH AIR. HAZARDOUS CARBON MONOXIDE GAS CAN FORM UPON CONTACT WITH REDUCING SUGARS, FOOD, AND BEVERAGE PRODUCTS.

Hazardous Decomposition Products:  
HYDROGEN GAS.

Hazardous Polymerization: <--May Occur X <--Will Not Occur  
Conditions to Avoid:  
N/A

## SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:  
WEAR APPROPRIATE PROTECTIVE CLOTHING. USE CARE AS SPILLS MAY BE SLIPPERY. DIKE AND CONTAIN SPILL. ABSORB WITH AN INERT MATERIAL AND TRANSFER ALL MATERIAL INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER. FLUSH AREA WITH WATER.

Waste Disposal Method(s):  
DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent:  
USE DILUTE ACIDS SUCH AS HYDROCHLORIC ACID OR VINEGAR. ADD CAUTIOUSLY WHILE MIXING. WEAR APPROPRIATE PROTECTIVE CLOTHING.

## SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:  
LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE EXCESSIVE LEVELS OF MISTS OR VAPORS. LOCAL VENTILATION IS PREFERRED, BECAUSE IT PREVENTS DISPERSION INTO WORK AREAS BY CONTROLLING IT AT ITS SOURCE.

Respiratory Protection:  
RESPIRATORS SHOULD BE SELECTED BY AND USED UNDER THE DIRECTION OF A TRAINED HEALTH AND SAFETY PROFESSIONAL FOLLOWING REQUIREMENTS FOUND IN OSHA'S RESPIRATOR STANDARD (29 CFR 1910.134) AND ANSI'S STANDARD FOR RESPIRATORY PROTECTION (Z88.2-1992). FOR CONCENTRATIONS ABOVE THE TLV AND/OR PEL BUT LESS THAN 10 TIMES THESE LIMITS, A NIOSH APPROVED HALF-FACEPIECE RESPIRATOR EQUIPPED WITH APPROPRIATE CHEMICAL CARTRIDGES MAY BE USED. FOR CONCENTRATIONS GREATER THAN 10 TIMES THE TLV AND/OR PEL, CONSULT THE NIOSH RESPIRATOR DECISION LOGIC FOUND IN PUBLICATION NO. 87-116 OR ANSI Z88.2-1992.

Glove Protection:  
NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR HAND PROTECTION, 29 CFR 1910.138.

## SECTION IX - SPECIAL PROTECTION INFORMATION (Continued)

## Protection:

ICAL GOGGLES AND A FACE SHIELD SHOULD BE WORN. ENSURE COMPLIANCE WITH OSHA'S PERSONAL PROTECTIVE EQUIPMENT (PPE) STANDARD FOR EYE AND FACE PROTECTION, 29 CFR 1910.133.

## Other Protection:

SAFETY SHOWER AND AN EYEWASH STATION SHOULD BE AVAILABLE. WEAR PROTECTIVE CLOTHING WHEN HANDLING.

## SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X      Outdoors-->      Heated-->      Refrigerated-->  
Minimum Temperature: 35°F      Maximum Temperature: 120°F

## Precautions to be Taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. ALUMINUM EQUIPMENT SHOULD NOT BE USED FOR STORAGE OR TRANSFER. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES WHICH MAY EXHIBIT THE HAZARDS OF THE PRODUCT. KEEP FROM FREEZING. IF PRODUCT FREEZES ALLOW IT TO SLOWLY WARM TO ROOM TEMPERATURE AND STIR WELL.

## Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS.

## SECTION XI - REGULATORY INFORMATION

## Chemical Name

None

## CAS Number

## Upper &amp; Limit

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.  
This MSDS is not intended for users in the state of California.

## SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2003.

2. OSHA PEL.

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFOWeb, 2003.

THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (TSCA) AND ARE EITHER LISTED ON THE TSCA INVENTORY OR OTHERWISE EXEMPTED FROM LISTING.

-----IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE,  
COR: CORROSIVE, CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, EMCC: PENSKEY-MARTIN CLOSED CUP,  
C: TAGLIABUE CLOSED CUP,  
LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY FOR THE RESEARCH ON  
CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL  
HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD, MOD: MODERATE, SEV: SEVERE,  
MUT: MUTAGENIC, ASPHYX: ASPHYXANT, PNOS: PARTICLES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT: STANDARD DRAIZE TEST, ORL: ORAL, IHL: INHALATION, HMN: HUMAN

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